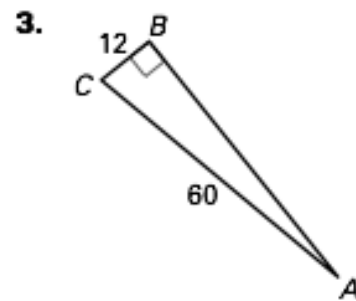
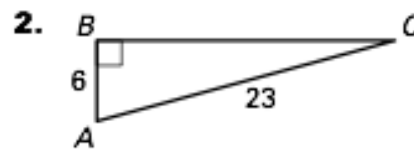
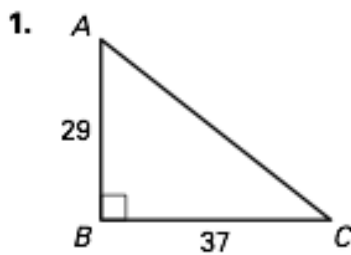


Honors Geometry

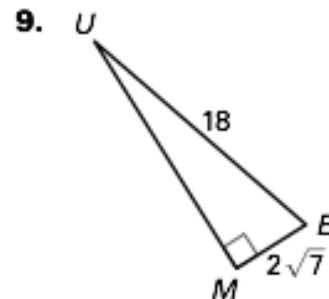
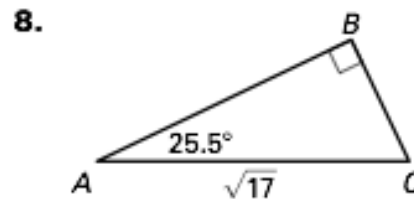
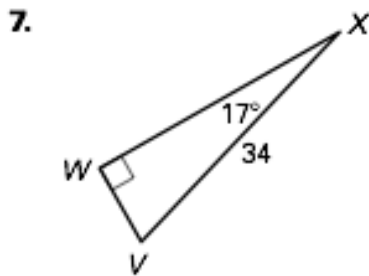
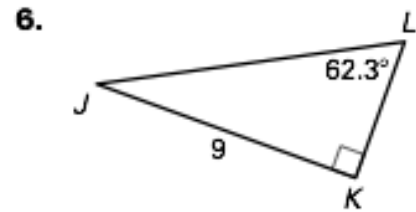
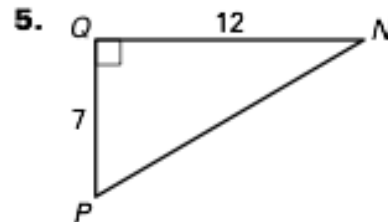
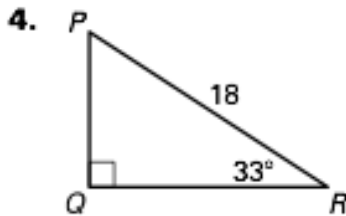
Review 1.7 & 1.8

Name _____

Use a calculator to approximate the measure of $\angle A$ to the nearest tenth of a degree.



Solve the right triangle. Round decimal answers to the nearest tenth.



Let $\angle A$ be an acute angle in a right triangle. Approximate the measure of $\angle A$ to the nearest tenth of a degree.

13. $\sin A = 0.16$

14. $\tan A = 1.8$

15. $\sin A = 0.97$

16. $\cos A = 0.25$

17. $\tan A = 8.4$

18. $\cos A = 0.81$

19. $\sin A = 0.44$

20. $\cos A = 0.05$

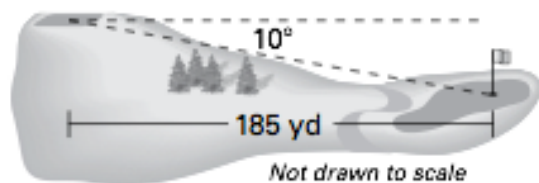
21. $\tan A = 1.0$

22. $\cos A = 0$

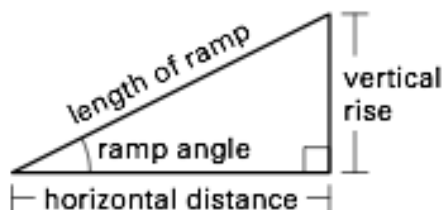
23. $\sin A = 1.0$

24. $\sin A = 0$

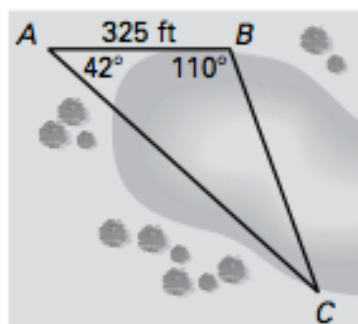
- 25. Golf** The angle of depression from the tee box to the green is 10° on a par 3, 185 yard hole. How much higher is the tee box than the green? Round to the nearest yard.



- 26. Ramp** You are designing a ramp where the horizontal distance is twice as long as the vertical rise. What will be the ramp angle to the nearest tenth of a degree?

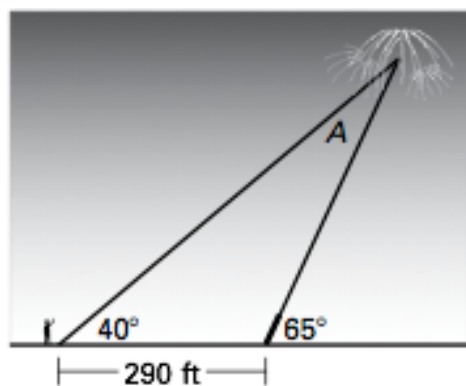


- 27. Bridge** A surveyor needs to find the distance BC across a lake as part of a project to build a bridge. The distance from point A to point B is 325 feet. The measurement of angle A is 42° and the measurement of angle B is 110° . What is the distance BC across the lake to the nearest foot?



In Exercises 28–30, use the following information.

Fireworks You are watching a fireworks display where you are standing 290 feet behind the launch pad. The launch tubes are aimed directly away from you at an angle of 65° with the ground. The angle of elevation for you to see the fireworks is 40° .



- 28.** To the nearest foot, what is the horizontal distance from the launch pad to the ignition point of the fireworks?
- 29.** To the nearest foot, what is the height of the fireworks when they ignite?
- 30.** What is the measure of angle A ?

